

In the Claims

Please cancel claims 57-119.

Please amend claims 12, 15-20, 24, 27, 35, 38, 41-42, 44-45, 47-49 and 52-56 as follows:

12. (Once Amended) The catheter assembly of claim 11, further comprising a second balloon enveloping the first balloon structure.

15. (Once Amended) A catheter according to claim 13 [or 14], where the exterior conduit permits positioning a radiation and/or radioactive source at a desirable distance from the biological paths.

16. (Once Amended) A catheter according to claim 13 [or 14], where the exterior conduit supports the walls of the biological paths.

17. (Once Amended) A catheter according to claim 13 [or 14], where the exterior conduit is of flexible material.

18. (Once Amended) A catheter according to claim 13 [or 14], where the exterior conduit prolongate along the entire length of the interior conduit.

19. (Once Amended) A catheter according to claim 13 [or 14], where the exterior conduit are segments of conduits located along the entire length and/or at specific locations of the interior channel.

20. (Once Amended) A catheter according to claim 13 [or 14], where the exterior conduit have perpendicular to its cross section micro-conduits and/or pores.

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24. (Once Amended) A catheter according to claim 13 [or 14], where the interior conduits are used for introducing devices used in catheter operations.
27. (Once Amended) A catheter according to claim 13 [or 14], where the exterior conduit can have around the whole or partial periphery open channels.
35. (Once Amended) A catheter according to claim 20 [13 or 14], where said external conduits having on its outer surface pores which extend from said outer surface to the above mentioned micro-conduits, [being] said pores being oriented at whatever desired angle with respect to the micro-conduits.
38. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, wherein the catheter includes a valve.
41. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, wherein the catheter further comprises a pressure monitor or a blood pressure monitor.
42. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, wherein the catheter further comprises a marker.
44. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, further comprising a stent or membrane for maintaining a cell wall.
45. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, further comprising a guidewire.
47. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, further comprising an over-the-wire guidewire.

- (1) (2) (3)
48. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, wherein an automatic radiating source placement machine is used with the catheter and wherein the radiating source is made of iridium or strontium.
49. (Once Amended) The catheter [of any one of claims 1 to 14] assembly of claim 1, wherein a guidewire may be removed from the catheter and another wire placed into the catheter.
52. (Once Amended) The method of claim 50, [51] wherein an over-the-wire, monorail, or multiple wire, techniques is used for insertion of the catheter.
53. (Once Amended) The method of claim 50 [or 51], wherein an irradiation source is placed in the inner lumen and a guidewire may be used to move the irradiation source to the distal end or near the distal end of the closed channel of the inner lumen using an automatic machine to move the irradiation source to the distal end of the channel.
54. (Once Amended) The method of claim 50 [or 51], wherein once the catheter body is in place at the biological path, the perfusion holes and allow fluids or gases to flow through the catheter body, thereby preventing an occlusion at the biological path where treatment is occurring.
55. (Once Amended) The method of claim 50 [or 51], wherein depending on whether the irradiation source needs to be centered a catheter having an appropriate fluid communication structure may be chosen.
56. (Once Amended) The method of claim 50 [or 51], wherein further comprising the step of: removing the guidewire.